

### **DETAILED ACTION**

Applicant's amendment of claims 57, in the paper of 3/3/2008, is acknowledged.  
Claims 1-3, 7-14, 23-25, 57-59 are present and at issue.

### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Young-Ping Hwung on 6/10/2008.

The application has been amended as follows:

In claim 1, line 4, after "polynucleotide encoding" delete "an amino acid sequence comprising".

In claim 57, line 4, after "polynucleotide encoding" delete "an amino acid sequence comprising".

In claim 57, line 7, after "95%" insert "sequence".

#### **Add the following new claims:**

75. A vector comprising the polynucleotide of claim 57.
76. The vector of claim 75, wherein the vector is a plasmid.

- 77. The vector of claim 75, wherein the vector is a bacteriophage.
- 78. The vector of claim 75, wherein the vector is a retrovirus.
- 79. The vector of claim 75, wherein the vector is an adenovirus.
- 80. An isolated host cell comprising the vector of claim 75.
- 81. The isolated host cell of claim 80, wherein the isolated host cell is a prokaryotic cell.
- 82. The isolated host cell of claim 80, wherein the isolated host cell is a eukaryotic cell.
- 83. A method for producing replication accessory factors comprising:  
expressing the polynucleotide of the vector of claim 75 in a host cell; and  
purifying the expressed product.
- 84. The method of claim 83, wherein the host cell is a prokaryotic cell.
- 85. The method of claim 83, wherein the host cell is a eukaryotic cell.

The following is an examiner's statement of reasons for allowance: The prior art does not teach or suggest an isolated and purified polynucleotide encoding an archaeal replication factor A ("RFA") comprising a polynucleotide encoding the amino acid sequence set forth in Figure 17 (SEQ ID NO:66) or a polynucleotide encoding an amino acid sequence possessing 95% identity to SEQ ID NO: 66, wherein the encoded

amino acid sequence binds to and stabilizes single stranded DNA. It is noted that a polynucleotide which encodes an amino acid sequence, must encode that amino acid sequence, but is not limited to encoding only that amino acid sequence.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard G. Hutson whose telephone number is 571-272-0930. The examiner can normally be reached on M-F, 7:00-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nashaat T. Nashed can be reached on 571-272-0934. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1652

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6/10/2003

/Richard G Hutson, Ph.D./  
Primary Examiner, Art Unit 1652